What is claimed is:

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- 1. A portable computer comprising:
- a desktop type processor;
 - a power management controller for judging the type of the power of the portable computer; and
 - a clock generator, coupled to the power management controller and the desktop type processor respectively, for outputting a clock signal based on a control signal from the power management controller and a judge signal from the desktop type processor so as to determine an operational frequency and an operational voltage of the desktop type processor.
 - 2. The portable computer as claimed in claim 1, wherein the clock generator includes a plurality of transformation tables therein so that the clock generator generates the clock signal from the control signal and the judge signal by referencing the transformation tables.
 - 3. The portable computer as claimed in claim 2, further comprising:
 - a DC power supply coupled to the power management controller so that the power management controller outputs a first control signal to the clock generator, wherein the clock signal of the clock generator is changed by the transformation table corresponding to the first control signal.

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- 4. The portable computer as claimed in claim 3, wherein the DC power supply is a battery.
 - 5. The portable computer as claimed in claim 2, further comprising:
 - an AC power supply coupled to the power management controller so that the power management controller outputs a second control signal to the clock generator, wherein the clock signal of the clock generator is changed by transformation corresponding table to the second control signal.
 - 6. The portable computer as claimed in claim 1, further comprising:
 - a chipset coupled to the clock generator, wherein an operational frequency and an operational voltage of the chipset are changed based on the operational frequency and voltage of the desktop type processor.
 - 7. The portable computer as claimed in claim 1, further comprising:
 - a memory coupled to the clock generator, wherein an operational frequency and an operational voltage of the memory are changed based on the operational frequency and voltage of the desktop type processor.
 - 8. The portable computer as claimed in claim 1, further comprising:

- a converter coupled to the clock generator and the desktop type processor so as to convert the voltage of the clock generator to the operational voltage of the desktop type processor.
- 9. The portable computer as claimed in claim 1, wherein the desktop type processor includes a plurality of calculation modes therein, and the operational frequency and voltage of the desktop type processor are linearly changed when the calculation modes change.
- 10. A power saving method for a portable computer with a desktop type processor, comprising:

providing a plurality of transformation tables; and determining an operational frequency and an operational voltage of the desktop type processor from the type and a calculation mode of the desktop type processor by referencing the transformation tables.

- 11. The method as claimed in claim 10, wherein the operational frequency and voltage of the desktop type processor are linearly changed when the calculation mode of the desktop type processor changes.
- 12. The method as claimed in claim 10, wherein the portable computer further includes a chipset, and the method further comprises:
- determining an operational frequency and an operational voltage of the chipset from the

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13. The method as claimed in claim 10, wherein the portable computer further includes a memory, and the method further comprises:

determining an operational frequency and an operational voltage of the memory from the operational frequency and voltage of the desktop type processor.